

SECRETNPIC/TDS/D-694-67
17 February 1967

MEMORANDUM FOR THE RECORD

(see 3 Feb 67 Progress Review Mtg by [redacted])

SUBJECT :

REFERENCES: a. PAR-243 Briefing Print Enlarger (Prototype).
b. Contract [redacted] Task no. 4 Joint Procurement of seven BPE's.

1. On 1 and 2 February 1967 [redacted] NPIC, in concert with

[redacted] to review progress on the Briefing Print Enlarger. [redacted] representative USN was not present). [redacted]

2. Two new individuals [redacted] have entered into the direct control of the Briefing Print Enlarger project. [redacted] will, in addition to his duties as deputy to [redacted] replace [redacted] as development and engineering administrator and will take over [redacted] desk. He may be reached on [redacted] [redacted] works for [redacted] of the Equipment Coordination Group, and will be responsible for installation, test and evaluation of the Printers.

3. This was the second meeting of the liaison group on the Joint Procurement contract. The meeting was called to accomplish three objectives:

a. To jointly review and approve the preliminary equipment performance and test specification.

b. To make an inspection of the assemblies and sub-assemblies fabricated thus far for the prototype printer.

c. After review of assemblies, sub-assemblies, and drawings to give full authorization to proceed with fabrication of the remaining assemblies for the seven printers, (eight assemblies had already been approved for fabrication at the meeting of 15-16 September 1966). Among those assemblies approved at this meeting were the following:

Declass Review by NGA.

SECRETGROUP 1
downgrading and
declassification

SECRET

1. Lamphouse, including condensor lens mounts, filter wheel and ventilation system.
 2. Negative transport; including coordinate display, film gate and controls.
 3. Electrical "console" including the main and sub-control panels, and the photometer.
 4. The vacuum exhaustor, including the blower package.
 5. The dark-screen to be used when printing on film.
 6. The lens ramp as revised since the last meeting.
4. Prototype Enlarger PAR-243:
- a. The scheduled delivery of the prototype BPE has now slipped, as predicted in the last report; the delivery being rescheduled for the month of July 1967. [] plans to start performance tests on the prototype not later than the early part of May 1967.

25)

b. On the afternoon of 1 February the liaison group visited the [] plant and inspected the partially assembled prototype. Considerable assembly has been performed on the prototype since the last visit, such as:

1. The easel rails, easel, and easel drive screw have been mounted on the optical frame.
2. The negative transport and film viewing assemblies have been mounted on the optical frame.
3. The lamp house, including the filter wheel and condensor assemblies have been mounted on the optical frame.
4. The objective lens mounting ramp was completed and installed and all lens focusing mounts, less glass have been assembled. All of the above assemblies were those on which final authorization for quantity fabrication was pending.
5. During the inspection of the prototype, the following irregularities were observed:

SECRET

5X1

SECRET

- a. The condensor assembly was difficult to insert and remove, some hand grips are needed in place of the handle on the top.
- b. The arm supporting the lens ramp has two machine screws, the heads of which interfere with the smooth lowering of the ramp.
- c. The lens locking lever is inconvenient to operate and there is danger of the operators knuckles being injured.
- d. The hand knob for fine adjustment of magnification has a smooth finish.
- e. There are a number of flat surfaces which will act as dust catchers.

6. Each of the above items were discussed extensively and the following agreements were reached:

- a. Because of pressure to get as much of the printer assembled as possible for our visit, some of the fittings and adjustments were incomplete and will be improved. This particularly is true of the condensor assembly; hand grips will be installed to provide convenient handling by a person of normal height.
- b. Flush surface flat head machine screws will be used on the lens ramp.
- c. Lever stops will be inserted to restrict the throw of the lens locking lever.
- d. A modified knurling will be used on the magnification adjusting knob (a sharp knurling is not appropriate because the knob is motor driven most of the time).
- e. Although the previous understanding was that exposed surfaces would be curved to reduce accumulation of dust, it now appears that the space and efforts required to provide such surfaces or covers are not justified and will not be provided.

7. The preliminary specification no. 469-333A was reviewed on the afternoon of 2 February 1967 with the following results:

- a. Paragraph 2.8 - Delete the word "appropriate" from the second line.

SECRET

SECRET

5X1 b. Paragraph 2.11 [] will prepare an additional sentence stating that interchangeable apertures will be provided for the probes from 3 mils downward.

5X1 c. Paragraph 2.12 - [] will prepare a related new paragraph (for inclusion under section 3 performance) to the effect that selected coordinates will have an accuracy and repeatability of $\pm 1\%$ or 1mm whichever is the greater.

d. Paragraph 3.2.1. - Delete the words "or USAF 1962" in the second line.

e. Paragraph 3.6. - Add after the words "(4.80 inch lens, on axis) in the first line, the words "and at an overall conjugate distance of 80 inches."

f. In addition to the above [] will prepare a paragraph to be included under section 3.0 performance - which will specify minimal scratching of the negative and a test method.

25X

8. Other matters of interest resulting from the discussion were:

a. To correct focus when negative emulsion is reversed in printer - divide the negative base thickness by 1.5 and set the focus correction indicator lens mount using this figure.

b. It now appears that nylon brushes, for removal of the indexing fluid, rather than the animal hair brushes discussed in paragraph 6 of the 30 November 1966 quarterly report, will be used. These brushes are made to order and at present cost about \$50 each. An effort will be made to reduce the cost of this item.

c. An agreement has been reached that DIA will take delivery of the first of the seven printers; [] will endeavor to deliver the first BPE during the month of November 1967. Otherwise, the delivery schedule will remain as stated in [] work statement of Bid no. 66-340A.

25X

25X

5X1 d. [] expects to start performance test of the prototype printer in May 1967. It was felt desirable to have Government operators present at these tests; this has been changed and only the technical representatives will be present for the performance tests. The operators will receive instruction at the specific installation sites, each team being present at the installation and test of the printer just preceding delivery of their own item.

SECRET

SECRET

e. Procurement of depot spare parts for the printers was discussed, but no firm method of handling was arrived at; [] will prepare a new listing, separating commercially available parts from those to be fabricated, and will attempt to give prices on a graduated quantity basis.

25X

f. The next joint meeting is scheduled to be held at [] during the week of 22 May 1967, when performance tests of the prototype are expected to be underway. Color transparencies of the actual prototype have been requested and are expected to be available at that time.

9. Action to be taken by NPIC:

a. Send message to [] confirming that all agencies will use 208/120 volt 3 phase 4 wire electrical input.

b. Obtain destination information on printers for the USN and furnish it to []

c. Furnish copies of this report to the Liaison representative for their information and record.

[]

25X

Support Systems Branch, TDS

Distribution:

- Original - Route & File
- 1 - Ch/PLB/PSD
- 1 - Navy
- 1 - Air Force
- 1 - Acting Executive Officer/TDS
- 1 - DIA
- 2 - TDS/DS

SECRET